

Inspire Smart Digital Lifestyle!



Consumer Product Guide

- Turn Your Living Room into a Home Theater
- Organize Your Multimedia at Your Fingertips
- Enjoy Music in Every Room
- Have Fun Wherever You Are



Eco-Friendly. We Do More.

More than just being a manufacturer with "green" in mind, ZyXEL commits itself to be the world's leading total access solution provider while doing its best for the environment by developing eco-friendly products. ZyXEL provides customers with a full range of reliable end-to-end networking solutions that are not only easy-to-use, but also cost-effective, energy-efficient and environment-friendly. With the most needed technologies integrated into one device, ZyXEL solutions bring smart, convenient and efficient digital lifestyle to our valued customers for less time and energy.

With smart plug-and-play design, ZyXEL's products simplify the process of building home multimedia networks and fit perfectly into every home. Through the user-friendly interface and easy-to-use one-touch button, users can easily customize network setting to meet personal needs. And the intelligent energy-saving mechanism of ZyXEL products also helps reduce energy waste and protect our environment.

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Smart Digital Home Solution Application Scenario



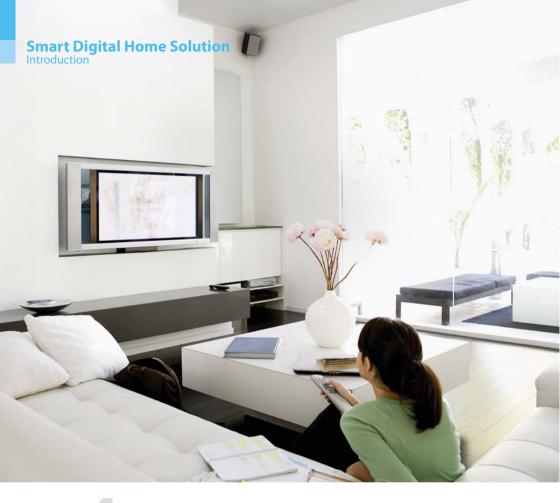
D Digital Media Adapter

S Network Storage Appliance

Powerline
Router



your computers and home entertainment systems through the existing electrical wiring already in the home!



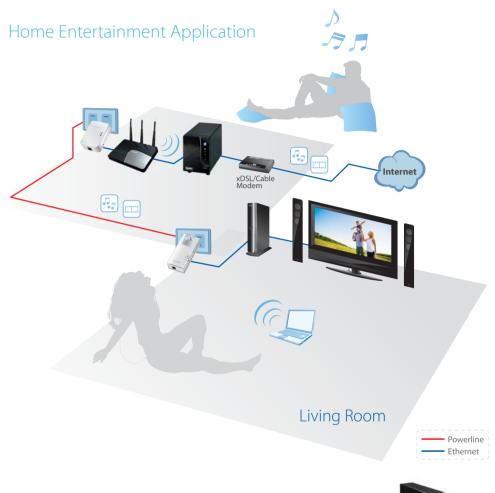
Entertainment Effortlessly

Turn Living Room into Home Theater

Turning a living room into a home theatre is no longer a fantasy. With the easy-to-install Powerline Ethernet Adapter, wireless routers and your existing electrical lines as the home connectivity backbone, the ZyXEL digital home entertainment solution, including media server and media player, has opened a new era of digital home entertainment. With ZyXEL's wired and wireless connectivity solutions, you can easily deploy a video network for home entertainment in a snap.

With for a wide range of file formats, the ZyXEL Digital Media Adapter ideally supplements home networks and delivers high-resolution images, movies or music from the home PC or network storage appliances to television screens or stereo systems. Users can create a home theatre that meets their own style and personal taste.

Smart Digital Home SolutionDiagram





PLA-401Powerline
Ethernet
Adapter



PLA-407 Powerline Pass-Thru Ethernet Adapter



NBG5715Dual-band
Wireless N
Gigabit Router



NSA221 2-Bay Media Server



DMA-2500 Full HD Digital Media Streamer



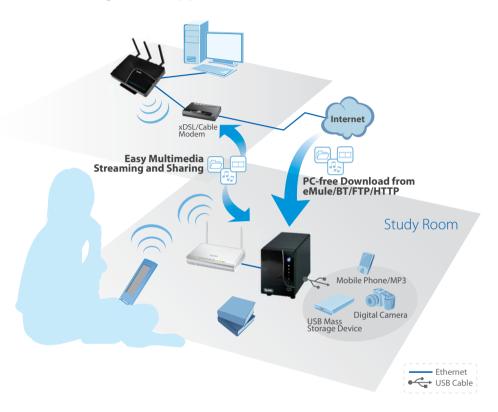
Integrate Efficiently

Organize Your Multimedia at Your Fingertips

Simplify data management with ZyXEL's integrated home network solution. With high performance, bandwidth management features and friendly user interface, the ZyXEL Router series can perform as smart central hubs for the home network to provide sufficient bandwidth instantly, safeguard broadband access to the Internet, allocate all devices on the network immediately and connect them to each other. Add ZyXEL Wireless Access Points, and you'll have an easily extendable home network without any hassles.

Combine ZyXEL Routers and Network Storage Appliances designed as a centralized file repository on the home network, and you can easily organize and share all the files in minutes by automatically downloading or uploading files to designated folders without the need to power on your PC. Also, the photos or videos placed on the network storage appliance can be uploaded to Flickr or YouTube automatically and shared in minutes.

Media Management Application





WAP3205Wireless N Access Point



NBG5715 Dual-band Wireless N Gigabit Router



NSA221 2-Bay Media Server

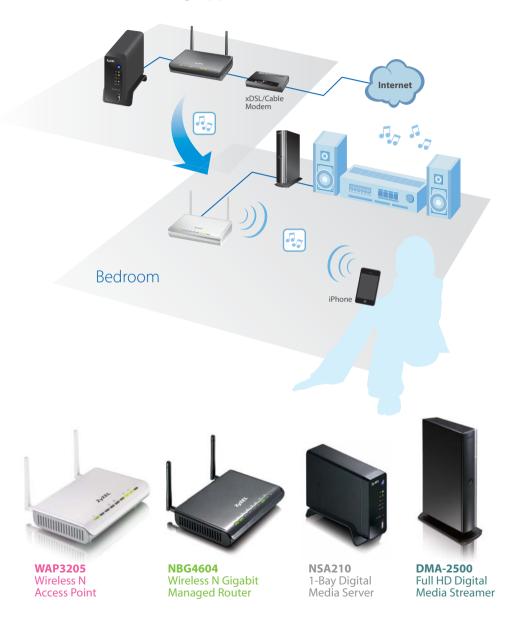


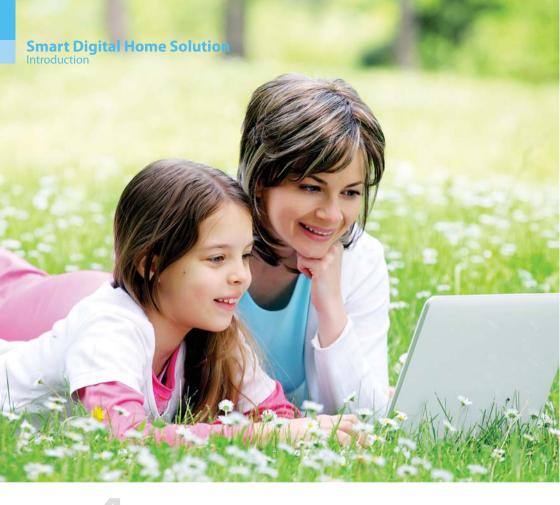
Relax Leisurely

Enjoy Music in Every Room

Deliver music from the box to every room! Through an DMC-capable device such as iPhone that acts as a remote control to the ZyXEL Digital Media Adapter, you can play music stored on a network storage appliance in the study room directly to the DLNA-capable stereo or TV in bedroom without even starting your PC; or just use the iPod touch as a media player to browse and playback the music stored on the ZyXEL Network Storage Appliance over the wireless home network. Connected with wired devices, the ZyXEL Wireless Access Point performs as a wireless extender to deliver high-speed broadband coverage to the entire house.

Multimedia Streaming Application



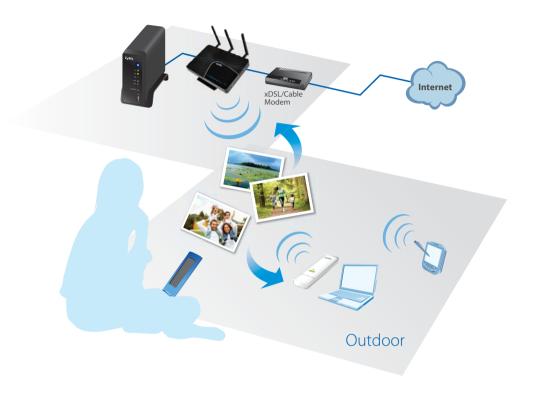


Share Simply

Have Fun Wherever You Are

Share with friends and family throughout the home, even on the patio! ZyXEL's wireless solution provides wide coverage and delivers the shared contents smoothly. You can easily share photos stored on your network storage appliances or PC through handheld devices such as iPod touch connected to the wireless home network. Photos and videos taken on family trips or at your children's birthday parties can be streamed immediately to outside gatherings with friends; or you can just plug a ZyXEL Wireless USB Adapter on your laptop to freely playback the music, photos and videos stored on the network storage appliances on your laptop.

Multimedia Sharing Application





NWD-211AN Dual-band Wireless N USB Adapter



NBG5715 Dual-band Wireless N Gigabit Router



NSA210 1-Bay Digital Media Server



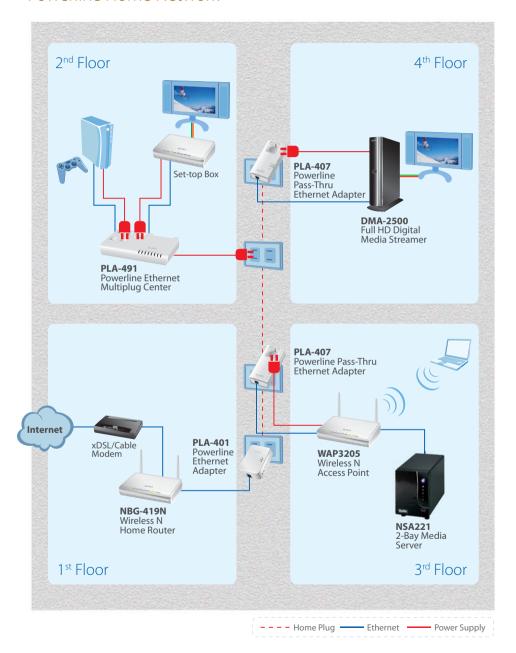
Powerline—

Turn Power Line into Smart Home Network

For an easier way to build a network in a home setting with the minimum effort and cost, ZyXEL Powerline solution is your choice. In many cases, Ethernet is just not available to places where network connectivity is needed, however almost every room at home has power circuitry already installed, which can be used to connect home networked devices for various multimedia applications. It is the simple way to extend the network connection from your broadband router.

The ZyXEL Powerline series, complying with the HomePlug AV standard, provides networking environments with ubiquitous, fast, stable and safe data transmission. Moreover, ZyXEL Powerline series with green features offers energy-saving networking solution without compromising performance.

Powerline Home Network



Digital Home Product Series

Benefits of Powerline



Plug-and-Play Design

Just plug a powerline device that links to a broadband modem into the power outlet in one room, and plug another linking to a PC or any Ethernet device in the other, you can easily and instantly connect to the network without laying complicated wires.



Data Transfer Rate of up to 200 Mbps

With a data transfer rate of up to 200 Mbps*, HomePlug AV, the most robust flavor of Powerline, can provide sufficient bandwidth for triple-play transmissions with full home coverage.



Green for Energy Saving

With a commitment to being "green", ZyXEL's new-generation Powerline Ethernet Adapters can reduce power consumption by up to 30% comparing to the previous generation of products*. Furthermore, when no Ethernet link is present, the energy-saving mode can slash power waste by up to 60% comparing to other adapters without this feature*.

*The actual saving of power consumption varies from model to model.



QoS for Home Multimedia Streaming

The advanced QoS features built into HomePlug AV are ideal for in-house distribution of HDTV and VoIP streaming. Through prioritizing concurrent video, audio and data applications, QoS can effectively improve the transmission performance.



Easy Security Set Up

The transmission via ZyXEL's HomePlug series is protected by 128-bit AES encryption to provide secure connections to the Internet. Just push the encryption button, and it takes only minutes to set up a secure network without complicated procedures or lengthy call to the help desk.



All-in-One Solution

The ZyXEL Powerline series provides comprehensive solutions by integrating the most needed technologies into one device. The Powerline Ethernet Adapters and Powerline Switch equipped with power outlets and noise filters to offer a high-speed network connection while supplying power to multiple electronic devices without the hassle of insufficient power outlets.



Noise Filter for Stable Network

With a built-in noise filter, the ZyXEL Powerline Ethernet Adapter can suppress noise interference level down to 1/1000 and optimize powerline communication performance. The noise filter can effectively reduce noises generated by surrounding electronic equipments such as lamps or mobile phone chargers plugged into the power outlets to ensure clean and stable signal quality on the powerline network.

PLA-407 Powerline Pass-Thru Ethernet Adapter





Powerline Ethernet Adapter with Extra Plug for Convenient HD Video Streaming

- Plug-and-play design for quick data transfer rate boost of up to 200 Mbps*
- Connects to powerline networks and provides additional power outlets
- Built-in noise filter reduces interference
- QoS enhances high-definition video streaming
- Power-saving mode reduces energy consumption
- Single encryption button provides full network security
- Multi-colored LED indicates powerline network performance

^{*}The theoretical data transfer rate is 200 Mbps. The actual data transfer rate will vary depending on quality of electrical installation.

Digital Home Product Series Powerline Feature Matrix

Model	NBG-318S	PLA-407	PLA-402	PLA-401
Product Picture		New	New	New
Description	Super G Wireless HomePlug AV Router	Powerline Pass-Thru Ethernet Adapter	Powerline Coaxial Ethernet Adapter	Powerline Ethernet Adapter
System Overview				
Standard	HomePlug AV 802.11b/g with Super G	HomePlug AV	HomePlug AV	HomePlug AV
PHY Rate*	Up to 200 Mbps	Up to 200 Mbps	Up to 200 Mbps	Up to 200 Mbps
Wireless Speed	Up to 108 Mbps	-	-	-
Key Features				
Plug & Play Design	Desktop/ Powerline Inlet	Wall-Mount/ Direct Plug	Desktop/ Powerline Inlet	Wall-Mount/ Direct Plug
QoS	Yes	Yes	Yes	Yes
Noise Filter	-	Yes	Yes	-
Powerline Security Encryption	128-bit AES	128-bit AES	128-bit AES	128-bit AES
Wireless Security	WEP/802.1x/ WPA/WPA2	-	-	-
LED Indicators to Identify Network Performance	Yes	Yes	Yes	Yes
Power-Saving Mode	-	Yes	Yes	Yes
Hardware				
Ethernet Port	1 WAN/3 LAN Ports	1	1	1
Coaxial Port	-	-	1	-
Power Outlet	-	1	-	-
Detachable Antenna	1	-	-	-
WPS Button	Yes	-	-	-
Encryption Button	Yes	Yes	Yes	Yes
HomePlug On/Off Switch	-	-	-	-
Power On/Off Switch	-	-	-	-

^{*} The actual data transfer rate will vary depending on quality of electrical installation.

Digital Home Product Series Powerline Feature Matrix

PLA-400	PLA-470	PLA-491	PLA-450	PL100	PLX-111
	**********	anim.		-	020
Powerline Ethernet Adapter	Powerline Ethernet 4-Port Switch	Powerline Ethernet Multiplug Center	Powerline Wireless AP	Powerline Ethernet Adapter	Powerline Network Filter
HomePlug AV	HomePlug AV	HomePlug AV	HomePlug AV 802.11b/g with Super G	HomePlug Turbo	HomePlug UPA, CEPCA
Up to 200 Mbps	Up to 200 Mbps	Up to 200 Mbps	Up to 200 Mbps	Up to 85 Mbps	-
-	-	-	Up to 108 Mbps	-	-
Desktop/ Powerline Inlet	Desktop/ Powerline Inlet	Desktop/ Powerline Inlet	Desktop/ Powerline Inlet	Desktop/ Powerline Inlet	Wall-Mount/ Direct Plug
Yes	Yes	Yes	Yes	-	-
-	-	Yes	-	-	Yes
128-bit AES	128-bit AES	128-bit AES	128-bit AES	56-bit DES	-
-	-	-	WEP/802.1x/ WPA/WPA2	-	-
Yes	Yes	Yes	Yes	-	-
-	-	-	-	-	-
1	4	4	1	1	-
-	-	-	-	-	-
-	-	4	-	-	1
-	-	-	1	-	-
-	-	-	Yes	-	-
Yes	Yes	Yes	Yes	-	-
-	-	Yes	-	-	-
-	-	Yes	-	-	-



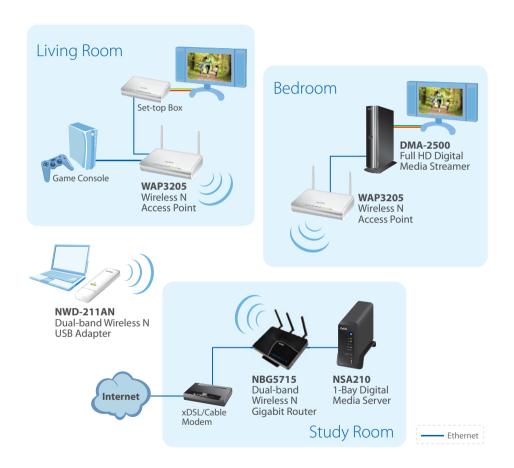
Wireless Router & Client— Easily Upgrade Wireless Connectivity for Multimedia Streaming

To elevate your real-time enjoyment of multimedia applications, the combination of a high-performance router and advanced wireless adapters make an efficient solution for setting up a network in minutes without complicated wiring. In order to fulfill the increasing demand for high-quality multimedia streaming, ZyXEL's complete 802.11n series can boost wireless data transfer rate of up to 450 Mbps*. Through the friendly user interface of the ZyXEL Router series, users can simply configure network devices according to their usage patterns.

Digital Home Product Series Wireless Router & Client

Besides performing as home network centralized hub, ZyXEL Routers can share and utilize network resources efficiently. Equipped with USB ports, the ZyXEL Router can not only share the 3/3.5G wireless network anywhere within the cellular signal coverage, but also let users share all USB-equipped network devices as printers on the home network.

Wireless Home Network



^{*}The wireless data transfer rate is the theoretical data transfer rate. The actual data transfer rate will vary depending on the network environment.



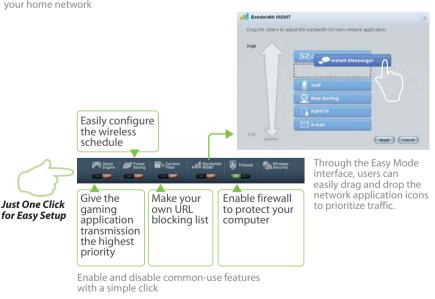
Friendly User Interface

With a user-friendly interface, ZyXEL Routers provide an "Easy Mode" for navigating functions, basic setup tasks and displaying a comprehensive network map. With the Easy Mode that simplifies system configuration tasks, you can enable or disable frequently used options such as Game Engine, Power Saving, Content Filtering or Bandwidth MGMT. Just click the On/Off icon to enable the Game Engine function and give gaming traffics the highest priority to ensure smooth gaming



experience for Xbox 360, PlayStation, Battle. net or MSN Game Zone. If you are not that into games, just click the Bandwidth MGMT icon for easy setups to prioritize network applications. Simple drag and drop of the network application icons is all it takes to adjust the priority. For advanced setup, "Expert Mode" provides full setup options for more detailed configuration.

Network map shows you devices on your home network





Video Enjoyment in Every Room

Lags in video streaming are now history. In the past, the WMM QoS features could only prioritize the transmission of time-sensitive applications without guaranteeing the video streaming quality, which depends on the stability of bandwidth and coverage. Supported by ZyXEL's new-generation wireless N router, the latest QoS technology extends the coverage to the entire home and enhances bandwidth stability as well as the video streaming quality. No matter where you are at home, it provides an optimized visual experience for you to enjoy high-quality video streaming over wireless home network.



Past:
The quality of video streaming could become unstable due to physical blockades and long distance from the access points.

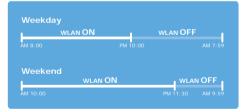


Current: The enhanced QoS function allows you to enjoy stable and quality video streaming anywhere at home.



Green Router Saves Energy

In order to save power and reduce wireless radiation when the wireless network is not in use, ZyXEL Router series features a wireless scheduler. Users can configure the router to turn on/off automatically according to the wireless usage pattern; or the user can just push the wireless on/off switch to save energy.*



Users can easily set up the wireless schedule based on their usage pattern

*This feature is available on select models only



Secure Home Network

The data security technology employed by ZyXEL makes it easy to allow authorized users to access the network, as well as to protect data from being tapped during transmissions. Users just push a WPS button on the router and the other on the client; both devices will find each other and automatically complete the security configuration.

Digital Home Product Series Wireless Router Product Spotlight



NBG5715

Dual-band Wireless N Gigabit Router







Ultimate Visual Experiences over Whole-Home Media Streaming

- 802.11n certified, dual mode (2.4 GHz or 5 GHz) for ideal media streaming environment
- Friendly user interface for fast function navigation and setup
- Gigabit Ethernet ports bring the faster wired speed
- Advanced QoS optimizes visual experiences for video streaming within the whole-home wireless coverage
- Two USB ports for printers and 3G dongles support
- Two IPSec VPN tunnels for secure data transfer between home networks and remote sites
- Multiple SSID for separating access privileges (secured and guest)



NBG4115

Wireless N-lite 3G Router







Optimizes Network Mobility

- 802.11n support with data transfer rates of up to 150 Mbps*
- One USB port for 3G/3.5G dongles as WAN connection backup
- Configurable QoS ensures smooth delivery of user's most important activities per the priority user set
- Eco-friendly wireless scheduling for energy saving
- WPS button provides secure data transmission with simple security setup

^{*}The wireless data transfer rate is the theoretical data transfer rate. The actual data transfer rate will vary depending on the network environment.



NBG4604

Wireless N Gigabit Managed Router







Extreme Wireless Performance and Dead Spot-Free Coverage

- 802.11n certified with data transfer rates of up to 300 Mbps*
- Gigabit Ethernet ports provide the faster wired connection
- TR-069 supports auto-configuration and provisioning
- SNMP support for monitoring device status
- Multiple SSID for separating access privileges (secured and guest)
- QoS for effective multimedia bandwidth allocation
- Eco-friendly wireless scheduling saves energy



WAP3205

Wireless N Access Point







Upgrade Wireless Speed and Extend Network Coverage

- 802.11n compliant, data transfer rate of up to 300 Mbps*
- Easy to extend the wireless network coverage
- 5-in-1 operation modes: access point, WLAN Client, WLAN bridge, WDS repeater, and universal repeater
- Multiple SSID for separating access privileges (secured and guest)
- WPS button for quick and easy wireless security setup
- Secure wireless communications with WEP/WPA/WPA2

Digital Home Product Series Wireless Router Feature Matrix

Model	NBG5715	NBG4604	NBG-460N	NBG-419N
Product Picture	New	New		New
	Dual-band Wireless N Gigabit Router	Wireless N Gigabit Managed Router	Wireless N Gigabit Router with VPN	Wireless N Home Router
WLAN Feature				
Wireless Data Transfer Rate*	450 Mbps	300 Mbps	300 Mbps	300 Mbps
Wi-Fi	802.11a/b/g/n	802.11b/g/n	802.11b/g/n	802.11b/g/n
Standard	a bo Wifin CERTIFIED® multi-stream n	be Wi Fin	bg Wi Fin	bg Wi Fin
WMM QoS	Enhanced QoS for whole-home wireless video streaming network	Yes	Yes	Yes
Wireless Scheduler	Yes	Yes	Yes	Yes
Output Power Management	Yes	Yes	-	Yes
WEP/WPA/WPA2	Yes	Yes	Yes	Yes
Powerline Feature				
Powerline Data Transfer Rate*	-	-	-	-
Standard	-	-	-	-
Hardware				
WAN/LAN Ports	1/4 (Gigabit)	1/4 (Gigabit)	1/4 (Gigabit)	1/4
USB Port	2	-	-	-
Detachable Antenna	3	2	3	2
WPS Button	Yes	Yes	Yes	Yes
Wireless On/Off Switch	Yes	-	-	Yes
Other Buttons	Power On/Off Switch	-	-	-
System Features				
Access Point Mode	Yes	Yes	Yes	Yes
NAT	Yes	Yes	Yes	Yes
DHCP Client/Server	Yes	Yes	Yes	Yes
Static DHCP, PPPoE, PPTP	Yes	Yes	Yes	Yes
IGMP v1/v2	Yes	Yes	Yes	Yes
SPI/DoS Firewall Security	Yes	Yes	Yes	Yes
IPSec VPN	2	-	2	-
QoSType	Port-based QoS	Port-based QoS	MBM v2	Port-based QoS
Windows 7 Certified	Yes	Yes	-	Yes
Work with Vista	Yes	Yes	Yes	Yes
	NWD-211AN NWD-310N	NWD-211AN NWD-310N	NWD-211AN NWD-310N	NWD-271N NWD-310N

^{*}The data transfer rate is the theoretical maximum data transfer rate. The actual data transfer rate will vary depending on the network environment.

Digital Home Product Series Wireless Router Feature Matrix

NBG-417N	NBG4115	NBG-318S	NBG-334W	P-334
	New			
Wireless N-lite Home Router	Wireless N-lite 3G Router	Super G Wireless HomePlug AV Router	802.11g Wireless Firewall Router	Broadband Firewall Router
150 Mbps	150 Mbps	108 Mbps	54 Mbps	-
802.11b/g	802.11b/g	802.11b/g with Super G	802.11b/g	-
be Wifi	CERTIFIED®	Wi Fi [®]	Wi Fi [®]	-
Yes	Yes	Yes	Yes	-
Yes	Yes	-	-	-
Yes	Yes	-	-	-
Yes	Yes	Yes	Yes	-
-	-	200 Mbps	-	-
-	-	HomePlug AV	-	-
1/4	1/2	1/3	1/4	1/4
-	1	-	-	-
1	1	1	1	-
Yes	Yes	Yes	Yes	-
-	-	-	-	-
-	-	HomePlug Encryption Button	-	-
Yes	Yes	Yes	Yes	-
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes -	Yes -	Yes -	Yes -	Yes 2
Port-based QoS	Port-based QoS	MBM v2	MBM v2	MBM
Yes	Yes	-	-	-
Yes	Yes	Yes	Yes	-
NWD-270N	NWD-270N 3G USB Dongle	G-202, G-302 v3 PLA-400 Series	G-202 G-302 v3	

Digital Home Product Series Wireless AP Feature Matrix

Model	WAP3205	G-570S v2
Product Picture		
Description	Wireless N Access Point	802.11g Wireless Access Point
WLAN Features		
Wireless Data Transfer Rate*	300 Mbps	108 Mbps
	802.11b/g/n	802.11b/g with Super G
Wi-Fi Standard	be Wi Fin	Wi Fi CERTIFIED
Wireless Scheduler	Yes	-
Output Power Management	Yes	Yes
802.1e/WMM QoS	Yes	-
WEP/WPA/WPA2	Yes	Yes
Hardware		
10/100 Mbps Ethernet Ports	2	1
Detachable Antenna	2	1
WPS Button	Yes	-
Reset Button	Yes	Yes
System Features		
Operation Mode		
AP Mode	Yes	Yes
Client Mode	Yes	Yes
Bridge Mode	Yes	Yes
WDS Repeater	Yes	Yes
Universal Repeater	Yes	-
Multiple SSID	Yes	-
MAC Filtering	Yes	Yes
IGMP Snooping	Yes	-
802.1x	-	Yes
DHCP Client	Yes	Yes
	Router: NBG5715, NBG-419N Client: NWD-211AN, NWD-310N	Router: NBG-318S, NBG-334W Client: G-202, G-302 v3

^{*} The data transfer rate is the theoretical maximum data transfer rate. The actual data transfer rate will vary depending on the network environment.

Digital Home Product Series Wireless Client Feature Matrix

Model	NWD-211AN	NWD-271N	NWD-270N	AG-220	G-202	NWD-310N	G-302 v3
Product Picture	Carlot Control	The state of the s	*				123
Description	Dual-band Wireless N USB Adapter	Wireless N USB Adapter	Wireless N-lite USB Adapter	Wireless USB Adapter	Wireless 11g USB Adapter	Wireless N PCI Adapter	Wireless 11g PCI Adapter
WLAN Featur	es						
Wireless Data Transfer Rate*	300 Mbps	Transmit: 150 Mbps Receive: 300 Mbps	150 Mbps	54 Mbps	54 Mbps	300 Mbps	54 Mbps
Wi-Fi	802.11a/b/g/n	802.11b/g/n	802.11b/g	802.11a/b/g	802.11b/g	802.11b/g/n	802.11b/g
Standard	abg Wi Fin	bg Wi Fin	CERTIFIED®	Wi Fi CERTIFIED	Wi Fi	bg Wi Fin	Wi Fi
Dual-band Support	Yes	-	-	Yes	-	-	-
WMM QoS	Yes	Yes	Yes	Yes	Yes	Yes	-
WEP/WPA/ WPA2**	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Soft AP***	Yes	-	Yes	Yes	Yes	-	-
Hardware							
WPS Button	Yes	Yes	Yes	-	-	Yes	-
OS Support	Windows XP/Vista/7 Mac OS 10.3/ 10.4/10.5	Windows XP/Vista/7 Mac OS 10.4/10.5	Windows XP/Vista/7 Mac OS 10.3/ 10.4/10.5	Windows XP/Vista	Windows XP/Vista/7 Mac OS 10.4	Windows XP/Vista/7 Linux (Kernel 2.4/2.6)	Windows XP/Vista/7

^{*}The data transfer rate is the theoretical maximum data transfer rate. The actual data transfer rate will vary depending on the network environment.

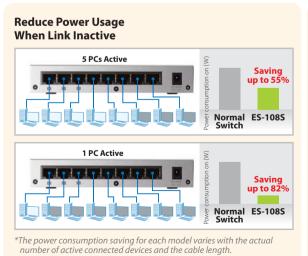
^{**} Per 802.11n specification, WEP and TKIP encryption doesn't operate under 802.11n mode.

^{***}Soft AP feature of AG-220 and G-202 doesn't support on Windows Vista.



Desktop Switch— Plug-and-play for Home Network Setup

With plug-and-play design, the ZyXEL Desktop Ethernet Switches make it easy to connect network devices such as PCs, network storages and print servers to your home network. And the "green" solutions allow all ZyXEL Desktop Ethernet Switches to provide power-saving benefits without compromising performance by automatically reducing power usage when a shut down network device or inactive link is detected. In addition, they automatically detect the length of connected Ethernet cables and adjust power usage accordingly. The shorter the Ethernet cable length, the less power it consumes.





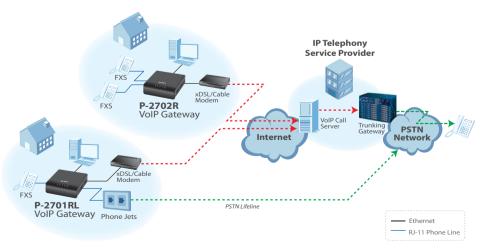
Digital Home Product Series Desktop Switch Feature Matrix

Model	GS-105B	GS-108B	ES-105A	ES-108A	ES-108P	ES-105S	ES-108S
Product Picture	11111		900 11177-	- main	-		
Description	5-Port Desktop Gigabit Ethernet Switch	8-Port Desktop Gigabit Ethernet Switch	5-Port Desktop Fast Ethernet Switch	8-Port Desktop Fast Ethernet Switch	8-Port Desktop Fast Ethernet Switch with Internal Power	5-Port Desktop Fast Ethernet Switch	8-Port Desktop Fast Ethernet Switch
Case	Metal	Metal	Metal	Metal	Metal	Plastic	Plastic
Green Feature							
Power Saving by Detecting Link Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Saving by Cable Length	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port Density &	Key Features						
10/100 Mbps Ethernet Ports	-	-	5	8	8	5	8
10/100/1000 Mbps Ethernet Ports	5	8	-	-	-	-	-
QoS Ports	-	-	2	3	-	-	-
Auto MDI/ MDI-X	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Store and forward	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Full Duplex Capability	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flow Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance							
Switching Capacity	10 Gbps	16 Gbps	1.0 Gbps	1.6 Gbps	1.6 Gbps	1.0 Gbps	1.6Gbps
Mac Address	1K	4K	2K	1K	1K	2K	1K
Memory Buffer	104 KB	128 KB	48 KB	96 KB	96 KB	48 KB	96 KB
Jumbo Frames	Up to 9 KB	Up to 9 KB	-	-	-	-	-
Power Consumption	3.15 W (Max)	6.48 W (Max)	2.25 W (Max)	2.40 W (Max)	2.34 W (Max)	2.25 W (Max)	2.20 W (Max)



VoIP Gateway— Integrating Voice & Data Networks

Designed for SOHO and home users, ZyXEL's VoIP Gateway offers crystal-clear voice quality and rich call feature set to fulfill users' VoIP needs. By simply plugging the Ethernet cable into the VoIP gateway and connecting the device to a regular phone, users can easily take advantage of subscribed VoIP services such as caller ID, call waiting, call hold/resume, call transfer, call forward, 3-way conference and lifeline. In addition, ZyXEL VoIP provides various voice codecs support, including G.711, G.723.1, G.726, G.729A/B and iLBC, to ensure audio transmission quality.



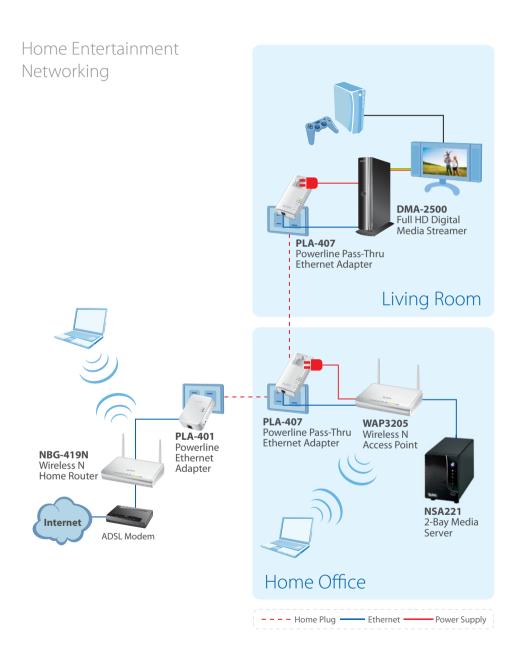
Digital Home Product SeriesVolP Gateway Feature Matrix

Model	P-2701RL	P-2702R
Product Picture		
Hardware		
10/100 Mbps WAN Port	1	1
10/100 Mbps LAN Port	1	1
FXO/FXS Port	1/1	0/2
Media Processing		
Codec	G.711, G723.1, G.726, G729A/B, iLBC	G.711, G723.1, G.726, G729A/B, iLBC
Fax	T.38, G.711 pass through	T.38, G.711 pass through
G.168	Yes	Yes
Voice Activity Detection	Yes	Yes
Comfort Noise Generation	Yes	Yes
Telephony Features		
Call Features	Yes	Yes
3-Way Conferencing	Yes	Yes
Dialing Plan	Yes	Yes
Caller ID	Yes	Yes
MWI	Yes	Yes
Polarity Reversal	Yes	Yes
DTMF	Yes	Yes
Auto-Provision	HTTP, FTP, TFTP	HTTP, FTP, TFTP
NAT/Firewall	Yes	Yes
Wizard Support	Yes	Yes



Storage & Digital Media Adapter— Enjoy Digital Entertainment Freely

The ZyXEL home entertainment solution consisting of storage and digital media adapters can bring you enjoyable and reliable digital home entertainment anywhere in the house through the home network. No matter where you are in the house, you can easily store high-resolution photos, videos, music and other media files on the digital media server and enjoy these files on HDTV or stereo system through digital media streamer without even powering up the PC. Users can also easily access the photos or videos on the road with an iPod touch. ZyXEL's digital home entertainment solution enhances the flexibility and mobility of home entertainment.



Benefits of Storage



With DLNA-certified digital media adapter and storage, you can play digital media collections through DLNA-capable clients at home such as HDTV, mobile devices or audio-video system to enjoy music, photos and videos anywhere without complicated installations or setup.





Intuitive User Interface

Users can easily manage the photos, videos and music through the user interface that offers graphical icons instead of the command lines. Users can also quickly preview the files through thumbnails and play them with the media player.

Its advanced zPilot file auto-classification function brings users more convenience: users can just drag the music, photo and videos files to the shortcut on the desktop, and the files will be automatically stored and classified to the designated folders created on ZyXEL Network Storage Appliance.







Easy Multimedia Streaming

ZyXEL Digital Media Adapter supports media files in a wide range of music, photo and video formats. You can access digital contents stored on a network storage appliance in your living room without the effort of converting file formats, or enjoy films with resolution of up to 1080p on a HDTV with title support. With built-in access to Internet radio, YouTube and WebTV, the digital media adapter also provides a convenient way to enjoy real-time online videos and music.





Powerful Auto Downloading/Uploading to Free up Your PC

The ZyXEL Network Storage Appliance supports automatically downloading without powering up the PC. Users can simply click to setup the storage to run eMule, BitTorrant, FTP or HTTP downloading or uploading files to flickr, YouTube and FTP server automatically. This is particularly useful for large and lengthy downloading or uploading and it's also efficient to save considerable power.

Runs downloads independent of PC



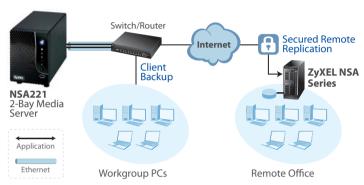
Auto-upload photos and videos





Complete Instant/Scheduled Backup Solutions

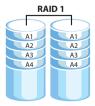
The "Backup Planner" enables an instant/scheduled backup solution so users can easily backup data from one ZyXEL storage product to another ZyXEL storage device using encrypted remote replication.



The intelligent "Copy/Sync" button helps easily copy from/to external USB storage device, card readers, and digital cameras.



The SATA disk in NSA210 can work with eSATA hard disk to build up RAID1 mirroring environment to enhanced data protection.



With networked Recycle Bin support, accidentally deleted data can also be quickly restored.



Digital Home Product Series Storage & Digital Media Adapter Product Spotlight



NSA221 2-Bay Media Server









Centralized Media Server for Convenient Multimedia Streaming

- 2-Bay digital media server with capacity of up to 4 TB
- DLNA 1.5-certified server compatible with a wide range of media devices for easy multimedia streaming
- Intuitive user interface with integrated media player for click-and-play
- Easy to install users' preferred applications by few clicks through Package management
- zPilot file auto-classification function makes file management easier and faster
- Online firmware upgrade with auto-notification
- Runs eMule/BitTorrent/FTP/HTTP downloads independent of PC
- Supports iTunes server, SqueezeCenter and photo album servers for music/photo/streaming and sharing
- All-in-one backup solution to protect users' valuable data
- Green NSA with scheduling and hard disk hibernation for energy savings



DMA-2500

Full-HD Digital Media Streamer







Stream Full High-Definition Multimedia at Home

- Streams 1080p high-definition videos from networked storage to HDTV
- DLNA 1.5-certified digital media streamer enhances media sharing experience
- More media formats and subtitles for hassle-free enjoyment
- Built-in DRM-ND enables playback of encrypted digital contents
- Built-in access to Web TV, YouTube and Internet Radio Live365
- Compatible with ZyXEL wireless N USB adapters for networking flexibility
- Compact design & friendly user interface

Storage & Digital Media Adapter Storage Feature Matrix

Product Picture Description	Model	NSA221	NSA-220 Plus	NSA210	
Intuitive User Interface Intuition Intuit	Product Picture	New		- Tenna	
Intuitive User Interface Yes	Description				
Intuitive User Interface Yes	Intuitive User Interface				
File Auto-classification Media Player Yes - Physical Specification Support Internal 3.5" SATA II Max. Hard Disk Capacity Support 4 TB 4 TB 2 USB Ports 2 USB Ports 1 ESATA Port Gigabit LAN Port 1 1 1 1 Kensington **Lock Security Hole Yes Yes Yes Yes Neseet Button One-touch Copy/Sync Button Yes Yes Yes Network Applications Media Server - UPNP AV Server with DLNA 1.5 Certificated - iTune Server, SqueezeCenter Support Web Server - UPNP AV Server with DLNA 1.5 Certificated - iTune Server, SqueezeCenter Support PHP/MySQL/PHP My Admin Support - PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server Download/Upload Download Support - EMule/BT/FTP/HTTP Download - SMB/FTP Server Upload Support - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes Yes Yes Yes Yes Ye		Yes	-		
Physical Specification Support Internal 3.5" SATA II 2 2 2 1 Max. Hard Disk Capacity Support 4TB 4TB 2TB Interface 3 USB Ports 2 USB Ports 2 USB Ports 1 eSATA Port Gigabit LAN Port 1 1 1 1 1 Kensington® Lock Security Hole Yes - Yes Reset Button Yes Yes Yes Yes One-touch Copy/Sync Button Yes Yes Yes Yes Network Applications Media Server - UPnP AV Server with DLNA 1.5 Certificated - iTune Server, SqueezeCenter Support Web Server - PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server Download/Upload Download Support - eMule/BT/FTP/HTTP Download - SMB/FTP Server Upload Support - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes Yes NAS vs. NAS with Encrypted Remote Replication Yes Yes Yes Instant/Schedule Backup Yes Yes Yes RAID 0, RAID 1 Yes Yes Yes Yes			-	-	
Support Internal 3.5"SATA II 2 2 2 1 Max. Hard Disk Capacity Support 4TB 4TB 2TB Interface 3 USB Ports 2 USB Ports 2 USB Ports Gigabit LAN Port 1 1 1 1 Kensington® Lock Security Hole Yes - Yes Reset Button Yes Yes Yes Yes One-touch Copy/Sync Button Yes Yes Yes Yes Network Applications Media Server - PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server Download/Upload Download Support - eMule/BT/FTP/HTTP Download - SMB/FTP Server Upload Support - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes NAS vs. NAS with Encrypted Remote Repliacation Yes Yes Yes Instant/Schedule Backup Yes Yes Yes Yes RAID 0, RAID 1 Yes Yes Yes Yes Yes Yes PTB 1	Media Player	Yes	-	-	
Max. Hard Disk Capacity Support 4 TB 4 TB 2 TB Interface 3 USB Ports 2 USB Ports 2 USB Ports, 1 eSATA Port Gigabit LAN Port 1 1 1 Kensington® Lock Security Hole Yes - Yes Reset Button Yes Yes Yes One-touch Copy/Sync Button Yes Yes Yes Network Applications Media Server - UPnP AV Server with DLNA 1.5 Certificated - iTune Server, SqueezeCenter Support Web Server - PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server Download/Upload Download Support - eMule/BT/FTP/HTTP Download - SMB/FTP Server Upload Support - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes NAS vs. NAS with Encrypted Remote Replicaction Yes Yes Yes Instant/Schedule Backup Yes Yes Yes RAID 0, RAID 1 Yes Yes -	Physical Specification				
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Gigabit LAN Port Gigabit LAN Port I 1 1 1 It	Max. Hard Disk Capacity Support	4TB	4TB	2 TB	
Kensington® Lock Security Hole Yes Peset Button Yes Yes Yes Yes Yes Yes One-touch Copy/Sync Button Yes Yes Yes Yes Yes Yes Network Applications Media Server - UPnP AV Server with DLNA 1.5 Certificated - iTune Server, SqueezeCenter Support - PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server - PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server - Punde Marin Support - eMule/BT/FTP/HTTP Download - SMB/FTP Server - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server - Auto-Upload Files to FTP Server - Auto-Upload Files to FTP Server - PC v.s NAS Yes Yes Yes Yes Yes Instant/Schedule Backup Yes Yes Yes Yes Yes Yes AID 0, RAID 1	Interface	3 USB Ports	2 USB Ports		
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Media Server - UPnP AV Server with DLNA 1.5 Certificated - iTune Server, SqueezeCenter Support Web Server - PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server Download/Upload Download Support - eMule/BT/FTP/HTTP Download - SMB/FTP Server Upload Support - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes NAS vs. NAS with Encrypted Remote Repliacation Yes Yes Yes Instant/Schedule Backup Yes Yes Yes RAID 0, RAID 1 Yes Yes	One-touch Copy/Sync Button	Yes	Yes	Yes	
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Photo Álbum and Bíog Server Download/Upload Download Support - eMule/BT/FTP/HTTP Download - SMB/FTP Server Upload Support - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes Yes Yes Yes Instant/Schedule Backup Yes Yes Yes Yes Yes Yes Yes Ye	Media Server				
Download Support - eMule/BT/FTP/HTTP Download - SMB/FTP Server Upload Support - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes NAS vs. NAS with Encrypted Remote Repliacation Yes Yes Yes Yes Instant/Schedule Backup Yes Yes Yes RAID 0, RAID 1 Yes Yes -	Web Server	- PHP/MySQL/PHP My Admin Support - Photo Album and Blog Server			
Upload Support - SMB/FTP Server - Auto-Upload Photos/Videos to flickr/YouTube - Auto-Upload Files to FTP Server Backup PC v.s NAS Yes Yes Yes Yes Yes Instant/Schedule Backup Yes Yes Yes Yes Yes Yes Yes Ye	Download/Upload				
PC v.s NAS Yes Yes Yes NAS vs. NAS with Encrypted Remote Replication Instant/Schedule Backup Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes RAID 0, RAID 1 Yes Yes Yes -	Download Support				
PC v.s NAS Yes Yes Yes NAS vs. NAS with Encrypted Yes Yes Remote Repliacation Yes Yes Yes Instant/Schedule Backup Yes Yes RAID 0, RAID 1 Yes Yes -	Upload Support			r/YouTube	
NAS vs. NAS with Encrypted Remote Repliacation Yes Yes Yes Yes Yes Yes AND 0, RAID 1 Yes Yes Yes Yes Yes Yes Yes Ye	Backup				
Remote Repliacation Yes Yes Yes Instant/Schedule Backup Yes Yes Yes RAID 0, RAID 1 Yes Yes -	PC v.s NAS	Yes	Yes	Yes	
RAID 0, RAID 1 Yes Yes -		Yes	Yes	Yes	
,	Instant/Schedule Backup	Yes	Yes	Yes	
Networking	RAID 0, RAID 1	Yes	Yes	-	
Networking	Networking				
- CIFS/SMB, NFS, FTP/HTTP Networking Protocols - DHCP Client, PPPoE - NTP	Networking Protocols	- DHCP Clie			
Networking Setting DyDNS Support	Networking Setting		DyDNS Support		
Security			,		
IP Filter Table Management Yes Yes Yes		Yes	Yes	Yes	
HTTPS/FTPES (FTP over explicit TLS/SSL) Yes Yes Yes	9	Yes	Yes	Yes	
System Management	System Management				
Online Firmware Upgrade Yes Yes -	Online Firmware Upgrade	Yes	Yes	-	
User/Group Management Yes Yes Yes		Yes	Yes	Yes	
Hard Disk Failure Detection (S.M.A.R.T.) Yes Yes Yes	Hard Disk Failure Detection (S.M.A.R.T.)	Yes	Yes	Yes	
Green Features					
Schedule Power On/Off Yes Yes Yes	Schedule Power On/Off	Yes	Yes	Yes	
Internal HDD Hibernation Yes Yes Yes		Yes	Yes		
External HDD Hibernation (eSATA) - Yes	External HDD Hibernation (eSATA)	-	-	Yes	

Storage & Digital Media Adapter Digital Media Adapter Feature Matrix

Model DMA-2500

Product Picture



Description	Full HD Digital Media Streamer
Hardware Specification	
A/V Output	HDMI 1.1, CVBS, S-Video/Component, SPDIF (Coaxial)
10/100 Mbps LAN Port	1
USB Port	1 (for storage or 802.11n USB dongle)
Remote Control	1

Video

Support YouTube, Internet Radio, and WebTV

Support (BGM) Background Music to Allow Viewing Photos and Listening to Music Simultaneously

View Photos in Thumbnails Mode/Slideshow

MPEG1/2/4 Elementary (M1V, M2V, M4V) MPEG1/2 PS (M2P, MPG) MPEG2 Transport Stream (TS, TP, TRP, M2T, M2TS, MTS) VOB AVI, ASF, WMV Matroska (MKV)

MOV (H.264), MP4, ISO, IFO

DRM	WMDRM-10nd
Audio	WMA, MP3, AAC 4, WAV, OGG, DTS-pass through, FLAC ,AC3, WMA Pro, LPCM, Vorbis, MP1, MP2, MP3
Photo	JPEG, BMP, PNG, TIFF, GIF
Subtitle	SRT, SUB (idx), SSA, ASS

Eco-Friendly. We Do More.



Powered by ENERGY STAR® Qualified Adapter

Powered by adapters with ENERGY STAR® qualification, the ZyXEL products bring users not only comprehensive digital home solutions, but also benefits of savings on power consumption.



Wireless Scheduling

In order to save power and reduce wireless radiation when the wireless network is not in use, the Wi-Fi device can be configured to turn on or off automatically according to user's wireless usage pattern.



Power On/Off Scheduling

The eco-friendly scheduling functions of ZyXEL's Network Storage Appliances can automatically perform power management tasks according to specific date/time settings for better power efficiency. Based on the user's usage patterns, the ZyXEL Network Storage Appliances can automatically turn on or off to conserve power and operating costs.



Smart Fan Control

With smart fan technology, the fans in ZyXEL's Network Storage Appliances can run at slower speeds to reduce power consumption when the system temperature is low.





Power-Saving Mode Consumes Less

The new-generation ZyXEL Powerline series features a power-saving mode that reduces power consumption when the Ethernet links become inactive.



Power Usage Adjustment by Link Status

The ZyXEL Switch series can automatically reduce power usage when any shut down network device or inactive link is detected; in other words, power consumption of the series can be adjusted according to the number of active network devices.



Saving Energy by Detecting Cable Length

The ZyXEL Switch series can automatically detect the length of connected Ethernet cables and adjust power usage accordingly. The shorter the cable length, the less power it consumes.



Six-level Wireless Output Management

With the six-level wireless output controlling capability, the ZyXEL Router series make it easy to adjust the output power for whole-home wireless coverage according to actual needs. The feature eliminates unnecessary power consumption and reduces interference caused by neighboring access points within an area of high-density wireless deployment.



Wireless On/Off Switch

The users can easily control wireless access and save energy with the wireless on/ off switch on the rear panel of the ZyXEL routers to toggle the wireless access in just seconds.



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